

Note: Slope of bottom slab shall be placed at natural stream gradient.

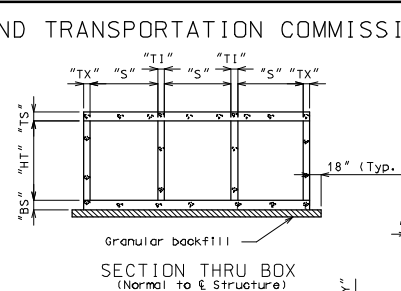
If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance with Sec 206.

GENERAL DATA TABLE					
VARIABLE	EQUATION	DIM.	VARIABLE	EQUATION	DIM.
"S"	--		"Q"	$TX(\cos Z)$	
"HT"	--		"T"	$G(\sec Z)$	
"TS"	--		"V"	$HT + TS - 12"$	
"BS"	--		"W"	$2A + B + C + 2E$	
"TX"	--		"X"	$3" + TX(\tan Z)$	
"TI"	--		"Z"	Skew Angle	
"A"	--		"BB"	$(A + B)(\sec Z)$	
"B"	--		"CC"	$(A + C)(\sec Z)$	
"C"	--		"EE"	$E(\sec Z)$	
"E"	$G + O + 20"$		"HH"	$20"(\sec Z)$	
"F"	$3S + 2TX + 2TI$		"YY"	$TX(\sin Z)$	
"G"	$2V$		Design Fill (')		
"H"	$(A + C + E)(\tan Z)$		Elev. (1)	feet	
"I"	$3I(\cos Z)$		Elev. (2)	feet	
"J"	$(A + B + E)(\tan Z)$		* Design fill height is the distance from the top of earth fill or roadway to the top of the top slab.		
"K"	$[(3/2)S + TI](\sec Z)$				
"L"	$2E + BB + CC$				
"O"	$I + YY$				

℄ Sta.=
Pr. Gr. Elev. at ℄ Sta.=
Fill at ℄ Rdwy. at ℄ Station =

ESTIMATED REINFORCING STEEL SUMMARY		
BAR SIZE	PLAIN (LBS)	EPOXY (LBS)
4		
5		
6		
7		
8		
9		
10		
11		
TOTAL		

Designed
Detailed
Checked



GENERAL NOTES:

Design Specifications:
2002 - AASHTO 17th Edition
Load Factor Design

Design Unit Stresses:
Class B-1 concrete $f'_c = 4,000$ psi
Reinforcing steel (Grade 60), $f_y = 60,000$ psi

Design Loading:
HS20-44 HS20 Modified

Earth 120 #/ft.³
Equivalent fluid pressure
30 #/ft.³ (Min.) - 60 #/ft.³ (Max.)

All elevations shown are in feet unless otherwise noted.

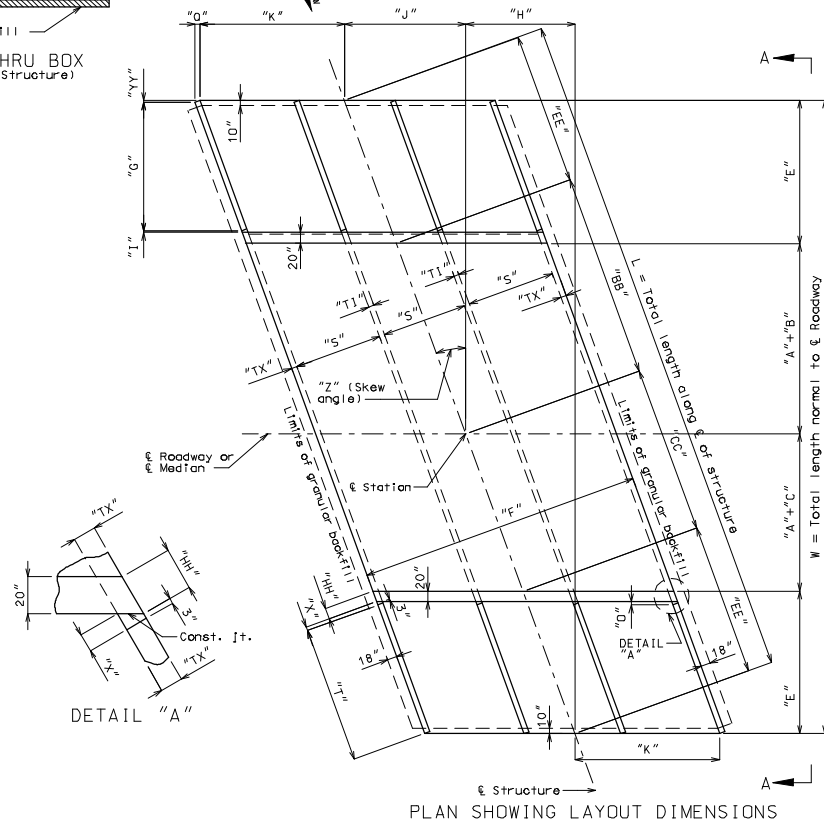
The box shown below indicating whether a precast or cip box was used should be checked by MoDOT Construction personnel:

☐ Precast Box used
☐ Cast-in-Place Box used

When alternate precast box sections are used, the minimum barrel length measured along the shortest wall from the first joint to the outside of the headwall, shall be 3'-2". Reinforcement and dimensions for the wings and headwalls shall be in accordance with Missouri Standard Plans drawing.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.



PLAN SHOWING LAYOUT DIMENSIONS

B. M.

BRIDGE

STATE ROAD

ABOUT

PROJECT NO

JOB NO.

STA.

RTE

1111

STD.

STD.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

STD.	
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STD.	
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204

Date: / / BOX 9PD

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

ESTIMATED QUANTITIES		FINAL QUANTITIES
Class 4 Excavation	cu. yard	
Removal of Bridges	lump sum	
Class B-1 Concrete (Culverts-Bridge)	cu. yard	
Reinforcing Steel (Culverts-Bridge)	pound	

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